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SPECIAL ISSUE ON
Cognitive Computing for Intelligence Systems

Overview:

Cognitive Computing breaks the boundary between two separate fields, neuroscience and computer science. It paves the way for machines to have reasoning abilities which is analogous to human. The research field of cognitive computing is interdisciplinary, and uses knowledge and methods from many areas such as psychology, biology, signal processing, physics, information theory, mathematics, and statistics. The development of cognitive computing will keep cross-fertilizing these research areas. However, in multimedia applications there still remain many open problems for cognitive computing. Technologies like cloud computing and big data are essential to upgrade the web systems with near human intelligence by using new capabilities such as machine learning, cognitive sensing, data mining, pattern recognition and natural language processing.

Topics

Topics of interest include, but are not limited to, the following scope:

- Human Brain Mapping Approaches	- Cognitive Mixed Reality
- Computational Modelling (CNN, RNN, ANN etc)	- Human-Inspired Robotics
- Sensory Perception Methods	- Brain-Computer/Robot Interface
- Soft Computing Models	- Neuroscience and Behavior Analysis
- Cognitive-level Algorithms	- Electro-Encephalography (EEG) Analysis
- Brain-inspired Systems	- Transcranial Magnetic Stimulation
- Swarm-based Algorithms	- Bayesian Program Learning

Important Dates

- **Manuscript submission deadline: August 1, 2019.**
- Notification of acceptance: September 30, 2019.
- Submission of final revised paper: October 30, 2019.
- Publication of special issue (tentative): December 2019.

Submission Procedure

Authors submit to MONET will have the opportunity to submit a shorter version of the paper to the conference ROSENET2018 and will get published and indexed. While authors that submit their paper directly to the conference ROSENET2018 will be candidates for inclusion in the MONET issue. Authors should follow the MONET Journal manuscript format described at the journal site. Manuscripts should be submitted on-line through <http://www.editorialmanager.com/mone/>.

A copy of the manuscript should also be emailed to the Guest Editors at the following email address(dr.huimin.lu@ieee.org)

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